

ABSTRACT OF THE DISCLOSURE

A steam turbine 1 constructed in accordance with the present invention comprises a high-pressure module 2 and a low-pressure module 3, a speed-
5 reducing gearbox 4, and an alternator, and wherein the high-pressure module 2 has a single stage of blades 20. This single stage of blades 20 performs the same function as a multi-stage high-pressure module, but with a blade design that is different from the blade design of multi-stage steam turbines. For example, the
10 pressure ratio between the inlet and the outlet of the high-pressure module 2 may be in the range 3 to 20.